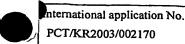
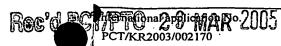
INTERNATIONAL SEARCH REPORT



		PCT/KR2003	3/002170		
A. CLASSIFICATION OF SUBJECT MATTER					
IPC7 D01F 1/00					
According to	International Patent Classification (IPC) or to both na	tional classification and IPC	,		
	DS SEARCHED				
	cumentation searched (classification system followed but D01D, C08L	by classification symbols)			
Documentation KR, JP :IPC	on searched other than minimum documentation to the as above	extent that such documents are included in the	fields searched		
Electronic dat	a base consulted during the intertnational search (nam	e of data base and, where practicable, search te	rms used)		
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No		
Α	US 6,051,174 A (MASSACHUSETTS INSTITUTE (18.04.2000)(Family None) see the whole documen	E OF TECHNOLOGY) 18 APRIL 2000	7-15		
A	US 5,866,053 A (MASSACHUSETTS INSTITUTE OF TECHNOLOGY) 2 FEBRUARY 1999 (02.02.1999)(Family None) see the whole document		7-15		
Α	US 5,762,840 A (KIMBERLY-CLARK WORLDWIDE INC.) 9 JUNE 1998(09.06.1998) (Family None) see the whole document		1-6		
A	US 5,512,231 A (HOECHST CELANESE CORP.) see the whole document	30 APRIL 1996(30.04.1996)(Family None)	1-6		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
	tegories of cited documents: defining the general state of the art which is not considered	"T" later document published after the internatio	nal filing date or priority		
to be of par	rticular relevance	date and not in conflict with the applicatio the principle or theory underlying the inven	tion		
filing date	lication or patent but published on or after the international	"X" document of particular relevance; the claime considered novel or cannot be considered	ed invention cannot be		
"L" document cited to est	which may throw doubts on priority claim(s) or which is tablish the publication date of citation or other	step when the document is taken alone			
special rea	son (as specified)	considered to involve an inventive step w	hen the document is		
means	referring to an oral disclosure, use, exhibition or other	combined with one or more other such docu being obvious to a person skilled in the art	ments, such combination		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actu	al completion of the international search	Date of mailing of the international search re	port		
27 JANUARY 2004 (27.01.2004)		28 JANUARY 2004 (28.01.2004)			
Name and mailing address of the ISA/KR		Authorized officer			
92 R	orean Intellectual Property Office 20 Dunsan-dong, Seo-gu, Daejeon 302-701, epublic of Korea	OH, SANG KYUN	(SAM)		
Facsimile No.	82-42-472-7140	Telephone No. 82-42-481-8165	A CIUIL		

Telephone No. 82-42-481-8165

INTERNATIONAL SEARCH REPORT



A. CLA	SSIFICATION OF SUBJECT MATTER				
IPC7 D01F 1/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)					
	D01D, C08L				
Documentation KR, JP :IPC	on searched other than minimum documentation to the	extent that such documents are included in the	fields searched		
KIC, II .II C	as above				
Flectronic dat	ta base consulted during the intertnational search (nam	e of data base and, where practicable, search ter	ms used)		
Electronic dat	ta vasc consumed during the intermational search (main	o or dam base and, where praements, search ter	1113 4304)		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Α	US 6,051,174 A (MASSACHUSETTS INSTITUTE (18.04.2000)(Family None) see the whole documen		7-15		
Α	US 5,866,053 A (MASSACHUSETTS INSTITUTE OF TECHNOLOGY) 2 FEBRUARY 1999 7-15 (02.02.1999)(Family None) see the whole document				
Α	US 5,762,840 A (KIMBERLY-CLARK WORLDWIDE INC.) 9 JUNE 1998(09.06.1998) 1-6 (Family None) see the whole document				
Α	US 5,512,231 A (HOECHST CELANESE CORP.) 30 APRIL 1996(30.04.1996)(Family None) 1-6 see the whole document				
<u>.</u>	<u> </u>				
Further	documents are listed in the continuation of Box C.	See patent family annex.			
	tegories of cited documents:	"T" later document published after the internation date and not in conflict with the application			
to be of particular relevance		the principle or theory underlying the inventi	ion		
filing date	lication or patent but published on or after the international	"X" document of particular relevance; the claimed considered novel or cannot be considered to			
	which may throw doubts on priority claim(s) or which is tablish the publication date of citation or other	step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other		considered to involve an inventive step who	en the document is		
means	being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed					
Date of the actual completion of the international search		Date of mailing of the international search report			
27 JANUARY 2004 (27.01.2004)		28 JANUARY 2004 (28.01.2004)			
	ling address of the ISA/KR	Authorized officer			
9	Corean Intellectual Property Office 20 Dunsan-dong, Seo-gu, Daejeon 302-701,	OH, SANG KYUN	全門品		
1.0 M	epublic of Korea 82-42-472-7140	Telephone No. 82-42-481-8165	COL		